TAC

GTG

ACC

CTC

TTC PHE

ACC

AAA LYS

ALA ALA

ACA

TCA

CAG

666 612 612

GAT

CCT

TGC

AAC

TCA

TAT

TGC

ATG

CCA

GEA

AAG LYS

CTC

GGA

ASP

GLU

GLE

VAL

ASN

GLU

VAL

ASN

GLY

CCA GTG AAA LYS AGC SER TCACGCGCCC CAGTCGACGC TGAGCTCCTC TGCTACTCAG AGTTGCAACC TCAGGCTCGCT GAT TIC TCC CCT PRO GGC TTC GAA CTG CCG CAA ALA GGA ACC GIG GGG CGG CCC PRO GAG AAT CTC AGCSER CIG ATA ILE CTG GGC CTG GTC VAL ATC GTC TTG G&A CTG AAA LYS TTG TAT CTC GTG TCA SER AAG LYS A CA CCC PRO CCC AAG LYS CCC TCC CAG CGG ARG CTG AAC ALA GTG GAC gcg TGT AAC CCC PRO TCT SER පුදුර SSS ARG ACA THR TCC CCC ACC CCT CAG AGC SER CTG SCTATAAGGA AGC SER GCC AGC AAT TGC CFI LEG SER GGC ACA TEG CCC GTG GAG ALA CCT PRO

AGG ARG GAG ACC THR GLU GTG VAL GGG EG CH E E LEG GGG AAC CGT ARG CTC GTG CAA AAG LYS ACG CCC Sig LEU GGC ACC CGG VAL GTG GTG VAL ACG GTG CIG CCA GTC GAC ACC CAG CTG GAG GLU CTC TGG GCC AAC ALA : ASN GAA GCT TCT SER ACT THR 000 PRO PRO PRO 000 PRO PRO SSS ARG GAG GLU CGC CTC LEU CCC PRO GGG TGC 500 PR0 PR0 GCA ALA GTG VAL TCG SER ACA ALA TTC PHB SCT ALA GGG CHG AAT CCA PRO GAA GGT GCC GAG GTG GAG GGA CGG ARG GTG CGG CAT CAG AAA LYS GLN GAA CTG CAC CCA TGC CYS GAT GAG ACT CGC GLU AAG LYS AGA TGG TRP CIA

SS 53 CCC ATG MET ACC TAC GTG VAL CCG PRO CAG ACC THR CAA EEG EBB GGC ATC ACA THR GGC A Se ACC 666 666 GTC CCA PRO **PR PR** はは TCT SER ACC GTG EEG CHG GAC CCC TTC CAG CTG LEU GTG VAL TGC CYS GAG GAG GLU CCA 930 930 930 ACT THR CTG LEG GTC GRG GIN はな TCC SER GAC A H ACC THR GAG AAC TCC SER GCG GGC CGT TCC SER TTC PHE ALA ALA GAG CAG GLN GGG CCA PRO P TGT CYS TEG GAT AAT ASN AGC SER E G CCA PRO LEG GAA SCA ALA GTC AGG ARG CTG AAG LYS GAA GAG GLU GTT VAL CGC ACA THR TCA ACC THR GTC GTG CAG EB CCA PRO CGG ARG 666 GLY GAG GTC GGG GTG VAL GAC TTT ACC THR TGT TGG TRP AAC ACC THR AAT ASN CAG GAG AGT SER GGG ACC GGG ACG THR AAG LYS GAC CAG AGC SER CCA PRO CTG GTC CAG CTG CAG TGG TRP E E AAC ACG THR GAG AAG LYS GCA TCA CAG ACG CHC LEG GAG AAC ASN AAG LYS SCA PRO PRO ACG THE GTG VAL AAC GAC SCC ALA CTG CAG 000 780 780 GGA CAC ACC THR AAG CHG LEG AAG LYS GGG GTG Val CAC TAC CCG PRO E E SCC ALA ATA ILE SCC ALA ATT E G CCC GAG GTC VAL ALA ALA 55 SE TGT AAG LÝS AGA TCG ATA GTG CAG CTA SCC ALA GAT ASP AAC ASN CAG GLN Ed PR 65 AAC GTA VAL TTC PHE TCG Ser GTC ALA ALA GGC AGG ARG E CE CAC CCC ALA ALA TCC GAG ACC CGG TGG GAG GCC ALA EG CHG ALA Sca ALA ALA TGT GAC 000 PRO PRO TCG SER AAC GAC GTG GEN GAG CCG ACG THR ASK GLU AGC SER EEG CTG FEE GTC VAL GGC TTT PHE CGA CHG LEGG AGG AAG ARG ARG AGC EEE CTG

FIG. 1B

CAG GEN ATC ILE 8 TGA ACCTATCCCG GGACAGGGCC TCTTCCTCGG CCTTCCCATA TTGGTGGCAG TGGTGCCACA AAA CCG AAC ACA LYS PRO ASN THR AGC SER AAC AGG ARG GTC TAT TYR GCC ALA CTC LEU CHC CGG ARG GAG TAC GGG ACC CCC ATG GLY THR PRO MET TGT TAT TYR AGC ACG CTC CGG ARG TAC TYR CCC PRO CTC GGC ACC GLY THR TCC SER TAC AGA CTA CAA CAG GCC CAA AAA TYR ARG LEU GLN GLN ALA GLN LYS GGC CTC LEU ACT GCA THR ALA GAG GTG AAT CIT LEU 86C 66C GTG GAT ACC CGA ARG ATG MET ATA ACT THR GTG ACT GTC THR VAL GTC GAG GLU ALA ALA CGC ARG ACC GCC ALA AAA LYS gtg Val GTA GCA VAL ALA GCC ACG CCT CCC ALA THR PRO PRO AAG LYS TCA GTC ATC ILE GAG GAA AAG LYS CGG ATC GLN

TITCCCCAGA AGGAGIGAIT ITICIAICGG CACAAAAGCA CIATAIGGAC IGGIAAIGGI ICACAGGIIC AGAGAITACC GAGACATAGC CCCACCATGA GGACATACAA CTGGGAAATA CTGAAACTTG CTGCCTATTG GGTATGCTGA GGCCCACAGA CITIACAGAAG AAGIGGCCCI CCAIAGACAI GIGIAGCAIC AAAACACAAA GGCCCACACI ICCIGACGGA IGCCAGCIIG GGCACTGCTG TCTACTGACC CCAACCCTTG ATGATATGTA TTTATTCATT TGTTATTTTA CCAGCTATTT ATTGAGTGTC TTTTATGTAG GCTAAATGAA CATAGGTCTC TGGCCTCACG GAGCTCCCAG TCCATGTCAC ATTCAAGGTC ACCAGGTACA CAGGAGAGTG CCTGGCAAAA AGATCAAATG GGGCTGGGAC TTCTCATTGG CCAACCTGCC AAGCCAAGAG GAAGGAGCAA GACTCAAGAC ATGATTGATG GATGTTAAAG TCTAGCCTGA TGAGAGGGGA AGTGGTGGG CTGAACAGAG TGGAAGACAT ATGCCATGCA GCTACACCTÀ CCGGCCCTGG GACGCCGGAG GACAGGGCAT TGTCCTCAGT CAGATACAAC AGCATTTGGG GCCATGGTAC CTGCACACCT AAAACACTAG GCCACGCATC TGATCTGTAG TCACATGACT GTTGTACAGG TTGTACACTG

FIG. 10

TCTCGCTCTG TCACCCAGGC TGGAGTGCAG TGGTGCAATC ATGGTTCACT GCAGTCTTGA CCTTTTGGGC TCAAGTGATC TGITIGCATT TCACTGGGAG CITGCACTAT TGCAGCTCCA GTTTCCTGCA GTGATCAGGG TCCTGCAAGC AGTGGGGAAG GGGGCCAAGG TATTGGAGGA CTCCCTCCCA GCTTTGGAAG GGTCATCCGC GTGTGTGTGT GTGTATGT GTAGACAAGC TCAGAGACGG GGTCTCGCAA CATTGCCCAG ACTTCCTTTG TGTTAA TAAAGCTTTC TCAACTGCCA AAAAAAAAA CAGIGAGGCC TTATICCICC CITCCCCCCA AAACIGACAC CITIGITAGC CACCICCCCA CCCACATACA TITCTGCCAG TGTTACAATG ACACTCAGCG GTCATGTCTG GACATGAGTG CCCAGGGAAT ATGCCCAAGC TATGCCTTGT CCTCTTGTCC CICCCACCIC AGCCICCIGA GIAGCIGGGA CCAIAGGCIC ACAACACCAC ACCIGGCAAA ITIGAITITI ITITITITITI AAAAAA

HG. 1

FIG. 2A

ACAACTG CTTCCCAAAA CGGAAAGTAT TTCAAGCCTA AACCTTTGGG TGAAAAGAAC TCTTGAAGTC ATG ATT met ile TTCACATCAA AACTCCTATA CTGACCTGAG ACAGAGGCAG CAGTGATACC CACCTGAGAG ATCCTGTGTT TGA

DCC Pro Act CAA gla ATA ile GTC GTG GCC TAC ACA thr GCC CAG gln TCC ser TGG GA glu GAT gg ala cys asn ACA AAT GGA TGT cys AAC asn GTG val GGT gly AAA 1ys asn AAC asn CCA TAC AAT asn ser TAT CTA len AAT GAA AGT GTG ATC val tyr AACasn g C ala TGC GAG glu ដូ ala TAC AGA ile AAA 1ys GAG glu GTC val TGG AAG CTA Acc thr ATT AGT ser trp cAA gln GCC ala GAG glu AAC ATC ile ATT ile AAA 1ys asn GCC ATT ile GTA GAG glu glu AGA TAC CTT leu val AAG 1ys CTC glu GAG GAG cys cys CTT AAG lys TGT TGT GAT asp GAA glu ATC ile GCC ATC ile AAG AAG, 1ys GAA glu GAG glu GTG GGA gly AAA 1ys GAA TAT CTC lea lys AAG GGT gly TTG AAC asn ATT GAA GTG ACT CAC his GGA 91y AGC ser ACA TGC ACT TGG ATG CAA TGC ပ္ပ gly AGT cys TAC CTG GAC CTC GCT ATT ile AGG AGT ser TTC CCT GAG arg GCA TAT GCT GAA glu ala TGC **GGC** 91y cys GAG glu AGT AAA 1ys GAT GII TCA ACG val pro င်ဦ CCA AAA 1ys GAT asp TCC cag gln CTC leu TCC ser CTG GAC asp AAT asn ACA thr caa gln TCA phe cac ACC thr ser TTT ACC TGT cys AGG TGG AAT asn GGA 91y trp TAT CAG gln asn AAC ACA ATG met ACC AAG 1ys asn AAT AGC GTA val ser TAC TAC ser TCA TGC TCT ည္ပင္သ AAC gly TTC leu TGG trp ŢŢ ser AGG GCT

cys CAG gln \mathtt{TGT} TGT GCT phe CAG gln GTG TAC met TIC ATG leu GCC H AGC GAG glu ser ala CCT TTG GTT ACC thr ser met cys TCC ATG CCA pro GGA TTC gly GGA gly AAA lys phe GAG GTT glu asn TIC ATC ile AAT phe cys CAT AACasn GTG pro ATG met TGT met CCT met AGC CAA gln AAC asn CTA ACG thr CGC ATG AGC gly GGA gly ser AAT asn TAC tyr gln pro TGC GAA glu CAG gln CCA CAA CTG AGC TGC GAA glu leu ser ပ္ပပ္ပ lys AGG arg GAG glu ACA thr gly TTT phe AAG CCA CCA pro GCC TTC phe arg CGA TGG GAG glu GTG val TCT cys cys GGA gly CCA TCT CAC CTG leu ACC CAG gln GAG glu AAC TCT thr asn GA glu GAA glu tyr ATT ile TAC AGT pro ည္ပ TIC bhe GGG gly GAC 66C 91y asp GAA glu TGC cys gly CCT GTG Val GGT asn CAA AAC asn TCC AAC TGG AAT asn TGT TTC phe arg GCT ala AGG GTT val ser TGC ACT 999 GACasp AAT asn CAG gln AGT gly GAT asp CTG leu TTG leu TCC ACC CCT ser 999 asn TTT gly AGC AAT cys TGG trp TGT ပ္ပင္ပ ala TGC TCA ပ္ပပ္ပ ACA TCT ser CAG gln ser ala GAA glu AGC GGA gly ser ACA thr AAA 1ys GAA glu CGC TGT TCA ser CCA pro CAT ATC ile GGA gly TGC cys TTC phe GTT ACC GTC AAT asn ACC thr thr TCT GAG glu ser TCT CAG ACC CAG gln GCC thr TGT cys ACA ACA thr TCC pro TGC cys CCT TTC phe TIC GCC AGG arg phe CAG gln asn AAC ATG met GTG val TCC GAG CCA pro TGC leu cys TCT GGA gly GGA gly AGC ACA thr CCA GAT asp CTG leu AAT

FIG. 2B

AGC ATC ile GGC gly TCT TTA leu GAA glu TGC GGA gly TGG trp AAG 1ys pro TCT CTT TGT CCI GACasp AAA. 1ys cys TGG GGA CAG gln AAC TTG leu CAA GGA gly TCT asn ccc TCA ala CAC his GCT GGA gly ccc phe GAA glu CTT CAG gln TIC GGA gly GTA cys ညည TGT TGG AAG lys GTT val CTT TGG AAG lys ACA thr TTG leu TCC GAG glu TCT cys TCT GCAala ccc AGC TGC CCC CTC ACA thr GCC TTC GGG 91y CCC TCT ser CTG CTC leu CAA gln GGA gly ATT ile TGC AGC GTGGAG glu TCC ser val ACA thr CAG gln AGC TGC ser cys TTT phe AACasn AAG lys: ACT thr TGT GAG glu TCA TGT cys CCC CAC ccA pro TCC. ACA ser GGC gly AGC CCC GTC TAC CTT leu TGT ser gly GCC AGC ala ser GCA AAA 1ys TTT phe CGG arg GAG glu CAA gln ACC thr TGT GCT ser cys. TTA leu GCT ACT thr GTG val TTC phe GTA CAA GAT ACT 666 91y ccT pro pro ACA ညည CCC GAA glu TCA GTG GCA TGC cys TAT CTC GTT CTG leu TCT GCT ala GAG GGA gly GGA gly CAA gln glu AGG AGA. arg CGT arg TTT phe CTC leu GGC. GAA glu 666 gly ATT TAT TGC AAA 1ys GTG val TTC AAA 1ys TCC AAT asn TCT cys TCC AGT pro TTA leu AGT ser TCC GCT CCT CTC leu ACC pro TGC Cys CTC TCCser GAA glu CCL GGC 91y GAA glu GGA g l.y CCT pro GGA gly AGC GTT AAG 1ys TGT TTT CTA TGG trp GGA gly ATG met GAG ACA GCT GCT ala CTG GAG glu AAC TGT GAA g lu CCC AGT GTG

TAC CAA AAG CCT TCT TAC ATC CTT TAA GTTCAAA AGAATCAGAA ACAGGTGCAT CTGGGGAACT tyr gln lys pro ser tyr ile leu ***

gatgitig tcagaigiga taigtaaaca taattctigi atattaigga agattitaaa ttcacaatag aaactFIG. 2D T TCTAGATTAC CCCCTCATTG TTTATTAACA AATTATGTTA CATCTGTTTT AAATTTATTT CAAAAAGGGA A AAAACA TGGTAGAATT GGAGAGTAAA AACTGAATGG AAGGTTTGTA TATTGTCAGA TATTTTTCA GAAATAT GTG GTTTCCACGA TGAAAAACTT CCATGAGGCC AAACGTTTTG AACTAATAAA AGCATAAATG CAAACACACA TCA ACTGAAAAGA CTCAGTGTTC CCTTTCCTAC TCTCAGGATC AAGAAAGTGT TGGCTAATGA AGGGAAAGGA TATITITIC CAAGCAAAGG TGAAGAGACC AAGACTCTGA AATCTCAGAA TICCITITICT AACTCTCCCI TG CICGCIGI AAAAICIIGG CACAGAAACA CAATAIITIG IGGCIIICII ICIIIIIGCCC IICACAGIGI IICGA CAGCT GATTACACAG TTGCTGTCAT AAGAATGAAT AATAATTATC CAGAGTTTAG AGGAAAAAAA TGACTAAA AAATCCTACT GAATGCTCTG TGCGAGGGTT ACTATGCACA ATTTAATCAC TTTCATCCCT ATGGGATTCA GTG CTICITA AAGAGITCIT AAGGATTGTG ATATTTTAC TTGCATTGAA TATATTATAA TCTTCCATAC TTCTTC ATTC AATACAAGTG TGGTAGGGAC TTAAAAAACT TGTAAATGCT GTCAACTATG ATATGGTAAA AGTTACTTA ACTATTGIC CCCTAGCAAG GCATGATGIT AACCAGAATA AAGTICTGAG TGTTTTTACT ACAGTTGTTT TITG GAGGGATAC ACTGAAGTTA ACAGAGACAG ATAACTCTCC TCGGGTCTCT GGCCCTTCTT GCCTACTATG CCAG AAGGTATAAT TTTATGAATG TCTTTGTTGG AAAAGAATAC AGAAAGATGG ATGTGCTTTG CATTCCTACA AA ATGCCT TTATGGCTGA AACCGCAACA CCCATCACCA CTTCAATAGA TCAAAGTCCA GCAGGCAAGG ACGGCCT AA TATTATAACT TAAAAAATG ACAGATGTTG AATGCCCACA GGCAAATGCA TGGAGGGTTG TTAATGGTGC

AAAA AAAAGTTTCA GAGAAGTTCT GGCTGAACAC TGGCAACGAC AAAGCCAACA GTCAAAACAG AGATGTGAT GCATTA GAAATTAGCT GTGTGAAATA CCAGTGTGGT TTGTGTTTGA GTTTTTAGA GAATTTTAAA TTATAAC TTA AAATATTTTA TAATTTTTAA AGTATATATT TATTTAAGCT TATGTCAGAC CTATTTGACA TAACACTATA GATCAGGCT ATGTATGGAA TACAGTGTTA TTTTCTTTGA AATTGTTAA GTGTTGTAAA TATTTATGTA AACT ATTIAACAAT TCCAAAGGAA TCTCCAGTTT TCAGTTGATC ACTGGCAATG AAAAATTCTC AGTCAGTAAT TGC CAAAGCT GCTCTAGCCT TGAGGAGTGT GAGAATCAAA ACTCTCCTAC ACTTCCATTA ACTTAGCATG TGTTGA CACCA TGTAAAAGAG TCATCTGGTA GATTTTTAAC GAATGAAGAT GTCTAATAGT TATTCCCTAT TTGTTTTC TT CTGTATGTTA GGGTGCTCTG GAAGAGGA ATGCCTGTGT GAGCAAGCAT TTATGTTTAT TTATAAGCAG A AGGATCAGAA CAGCAGAGGT TCTTTTAAAG GGGCAGAAAA ACTCTGGGAA ATAAGAGAGA ACAACTACTG AAGGTTGACA ATAAATGTGC TTATGTTT

FIG. 2E

FIG. 3A CGGGCTCAC AGCTGAATAC CCTCCCAGGC ACACACAGGT GGGACACAAA TAAGGGTTTT

ပ္ပပ္ပ CTT ATC ile GTG GTC ATG met lys Ag ACCACTA TITICICATC ACGACAGCAA CITAAA ATG CCT GGG met pro 91y

AAA 1ys AGG GAC asp AAG 1ys Z Z GAG g lu CAC his pro GTG GGC val CCA GGA gly GTA Val arg ATA ile AGG GGG gly GAA glu GTG ACA AAG 1ys Acc ACA thr ATT GAC cag gln GCT ala GAG glu AAC asn ACC 999 gly ACC thr ပ္ပ pro GAT asb GCA GAG glu CTG ATC ile GAG glu AGC AAT asn GGG gly ser Val GAG glu GTG GAT CTG leu AGG arg GGA 91y CTG leu Ë phe TGC cys ATC ile TCI ser ATT ile GAC GAG pro AAA 1ys CCI pro AGT ser A.A. lys ACT thr CCA asp GAT GTC CTG phe val GAA glu GGC 91y TTT GTT phe TTG leu AGT ser ATG met TTT phe Ç pro CCA AGT GAT asb CCT pro TTG ala TCA ser GCT **₹** glu GAA glu ACT thr TAC ile AAT AAA 1ys TTC asn ATA GTC S gln val phe GAT asp cAG gln E GTA CAG gln CAT ATG AGG TCC TCI asp ser phe ala ala ser CAC ATT (GAT lys ser glu val thr GTA ACC ACA ATT AAG AGT rcr ser GAC Acc CCT GCT GAG glu AGA CTG GAA glu arg gly GCA GGT TTA GAA ATG met GTT CCA TGG trp TGT ACG TTT ATT ile AAA 1ys S S S S TTG leu leu GAT TCA ser CAG gln TCT TCT ACT ATG met ser GCT AGT his ser cys CAT TGT GCA AAG 1ys ACA thr TTC 11e phe ATA CCI ala CGA arg asp AAG 1ys cct pro AAG lys GAT TTT phe ACC ACA thr CTT leu TGG TGC cys GGA ACC gly GTC TTT val TGC GGG gly TAT ₹ U pro leu CIT GAA glu GIT lys val ACA M CTG TCI ser GAG glu ATA AGAarg TCC CTG CTT leu CTG leu ATC ile TAC TAC tyr AAT asn asn GAG glu AAT TCT ser TCC GTT leu pro ATC ပ္ပပ္ပ ile cys ACG TCT ser GAA glu TGT TCA ser

3B

<u>ෆ්</u>

AAA TGT CAA gln ATC ile TTC 666 g 1 y AACasn TGT GTA AAT CTA TCT ccc GAG glu AAG 1ys ACG thr GTT val Act CTT leu val GCT CTT CTA leu CTT AGT GTC CAA CAC TAT ser CCT CCT CAG gln TTA TCT GCT AGC ATT ile GTT val TCT ATT ile phe AGC TTT AGGarg AAA 1ys ile GAA glu AAA 1ys ATT AGC CTA GGA gly val GTC CAA gln ATT ATG met GGA gly AAT asn TCT TTA leu GGG gly ACA thr TGT ser CAG gln TTG leu AAA 1ys GAG glu GAT ACT thr GAT AAT asn asp GAA glu AAT asn ACC thr 666 91y AGC ser GAT CCC pro GTC val CTG leu ACG thr GAA glu GTG GTG va:l AAT asn AAG 1ys ATG met TTG ACC thr GAA glu CGG GAT GAA glu CTC leu GAG glu CCC pro Acc GAT ATG met TGC TTC ACA GAG GAC ATT A. lys GGC gly TCA TTA AGG arg GTG ACA GAT ACC GAA g lu TTG leu AGA arg, GGT CTT AAA 1ys ATG met ATA ile TCT ATG met AGA ccT pro ATG met ccc TTT AAC asn AGT TAC GGC 91y AAG 1ys GCT GAC CCC AAT asn ATC ile TAC GÀG glu ATG met ATT ile AAA 1ys GTC val GGT AGT GTG GAT TTC phe ATA ile GAG glu GTG TTÄ GGG gly TGG trp leu C&A gln GAA g lu TCT ser ATT ile GTT ACC AAT asn AGC ATT ATC ile TTC ACC thr TTG leu CAA gln AAT asn AGT ser CAT his ATG met TTG leu GAA ccr leu CTG ೧೩೦ GAA glu TTA GTC GAA glu CCA CTG leu GTT AAT asn AAG lys ACT AAA 1ys GAA 91u AAG 1ys TAT tyr TTC AAG 1ys GTT val GAT GCA pro GTA val ACA thr GCT CTT leu AGT ACT TGC GGA gly AGA TCC AAT asn GCT GCT CTG GÅG glu AAA 1ys CCT AGC GAA g Lu GGA CCA

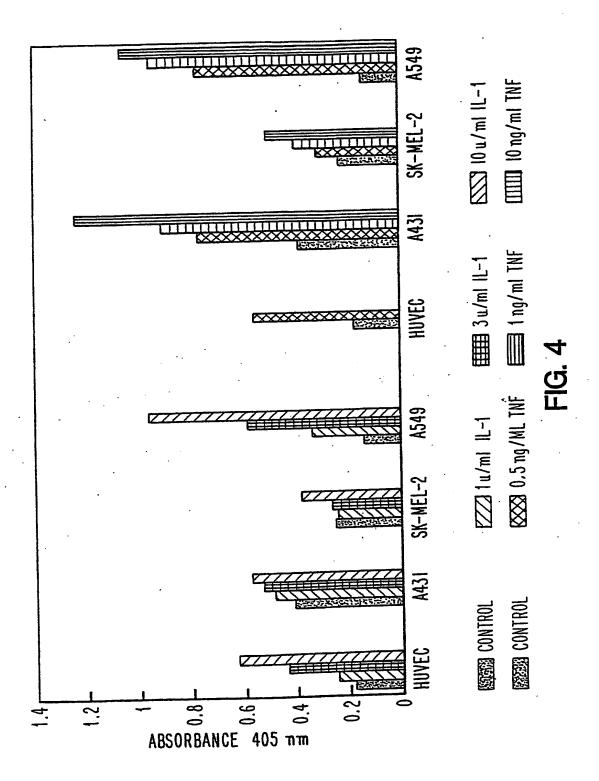
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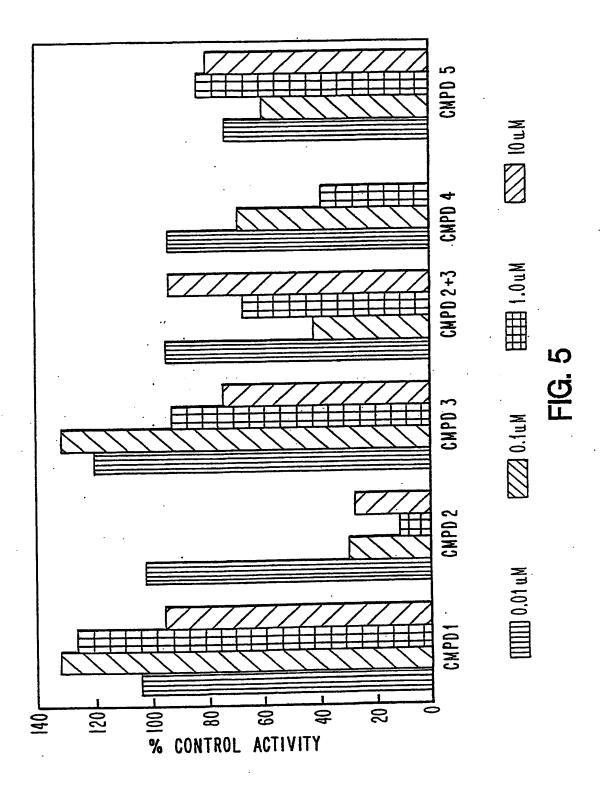
t gatcigtata tacaataaca taattigtac atatgtaaaa taaaattatg ccatagcaag attgcttaaaa FIG.

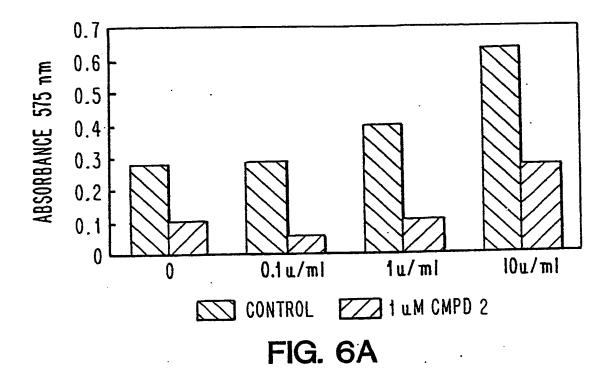
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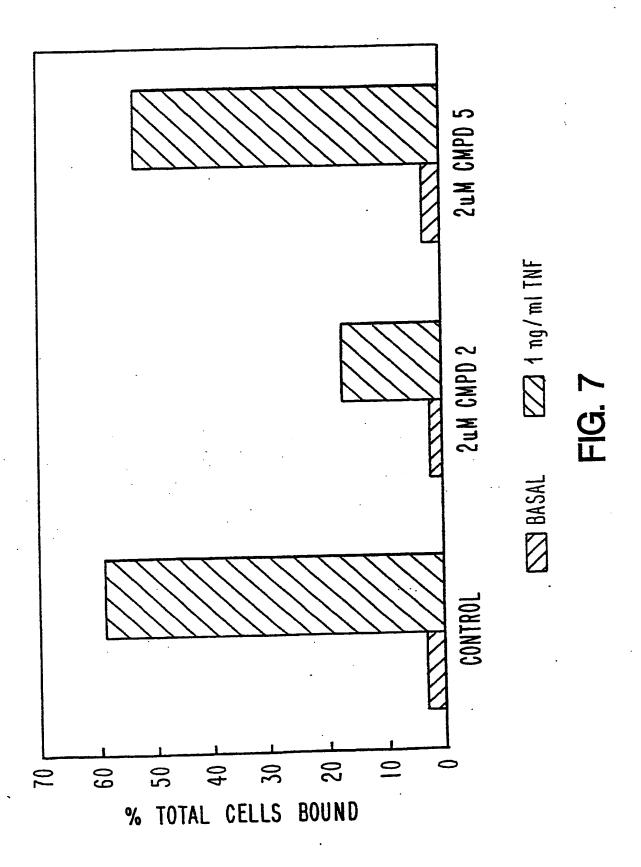
FIG. 3F

AA GTGATAATTT CTGGAATTAA AAA









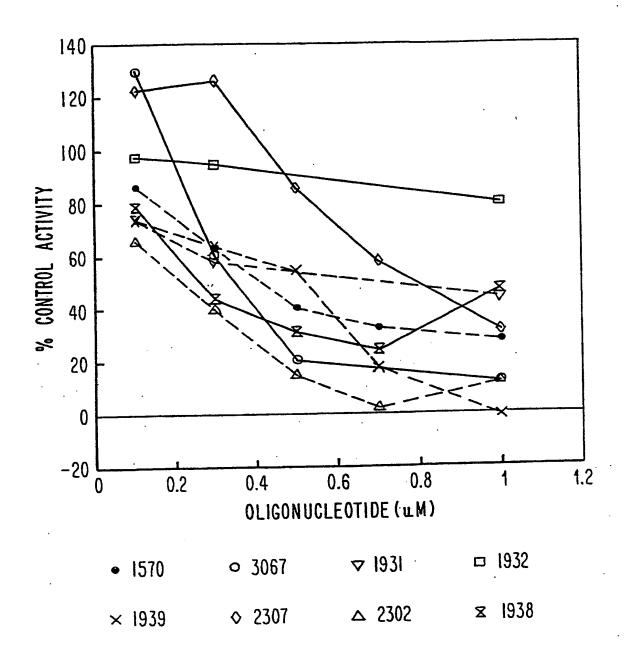


FIG. 8

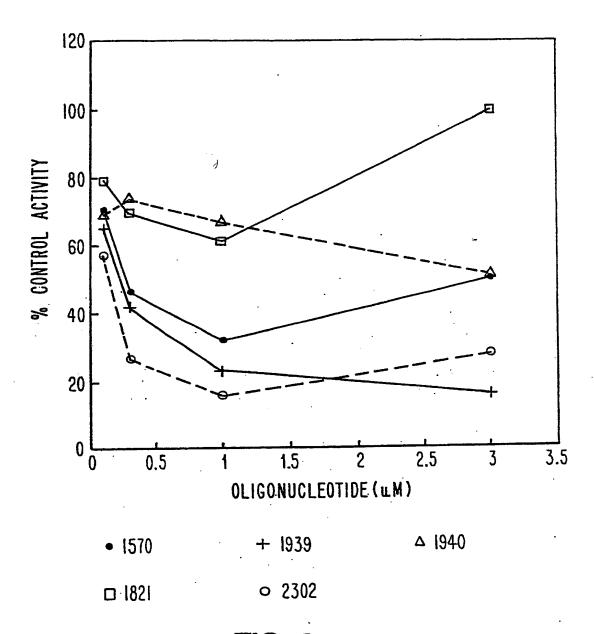
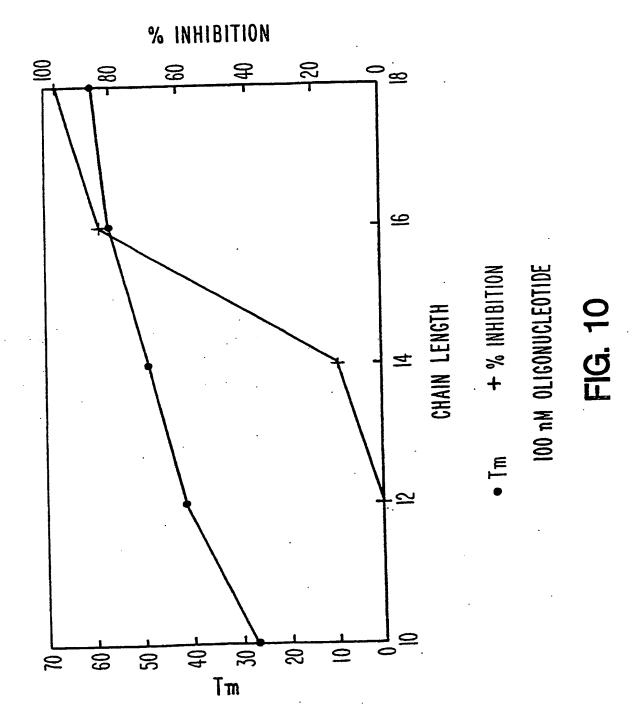


FIG. 9



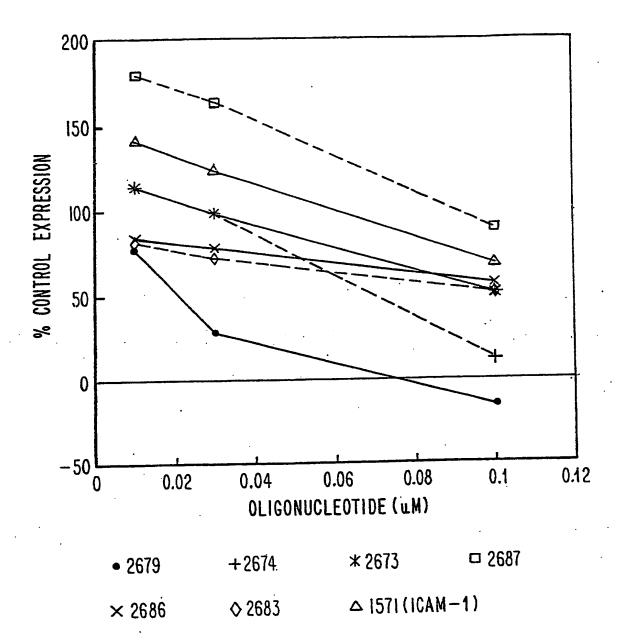
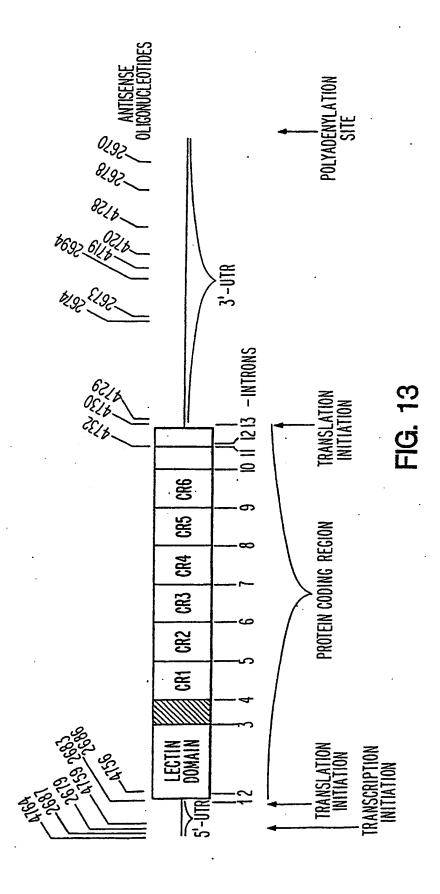
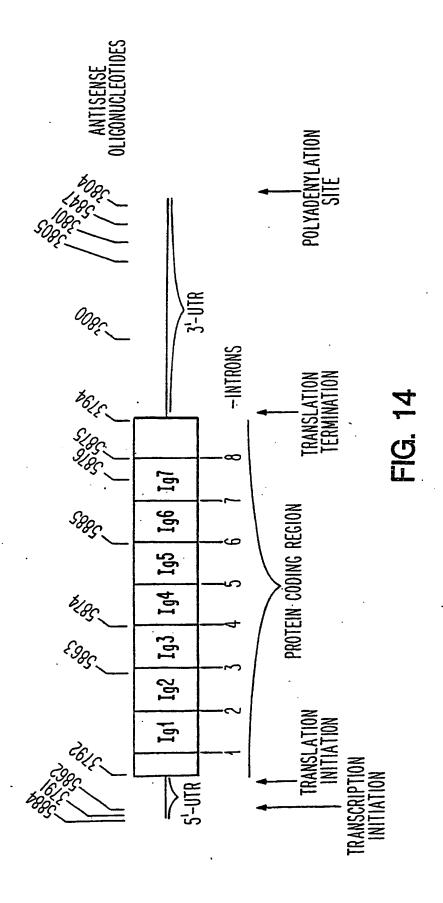


FIG. 12





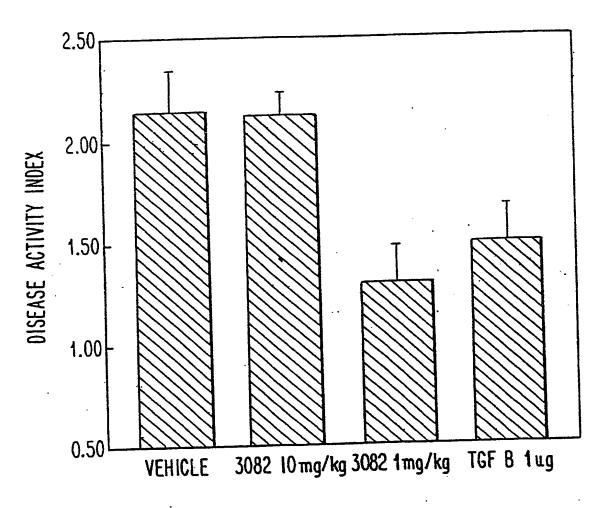


FIG. 16

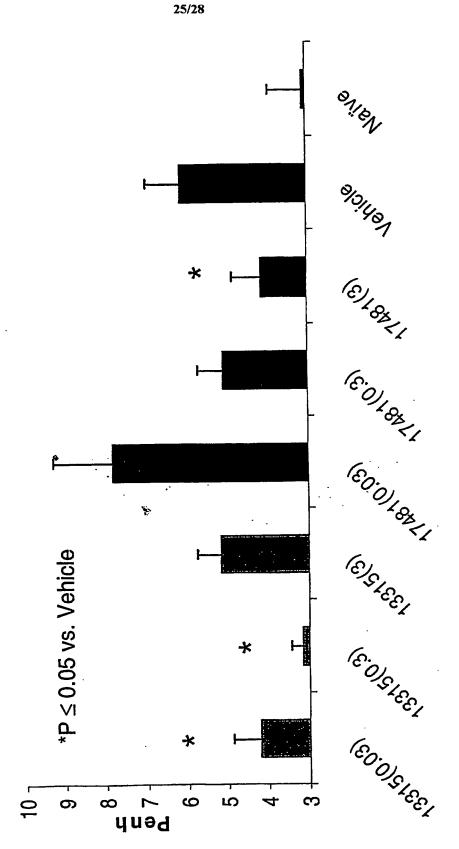
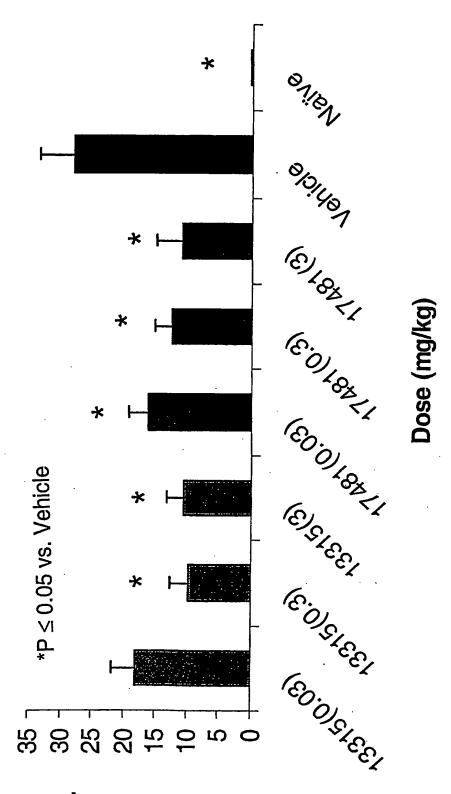
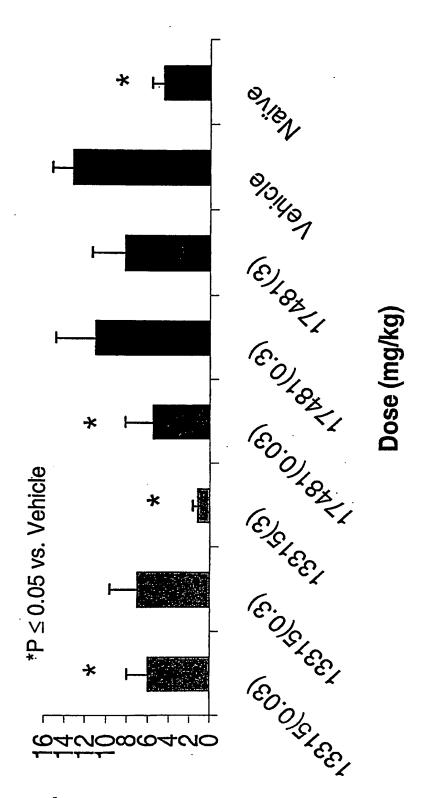


FIG. 17



Percent Eosinophils

F16.18



Percent Meutrophils

F16. 19

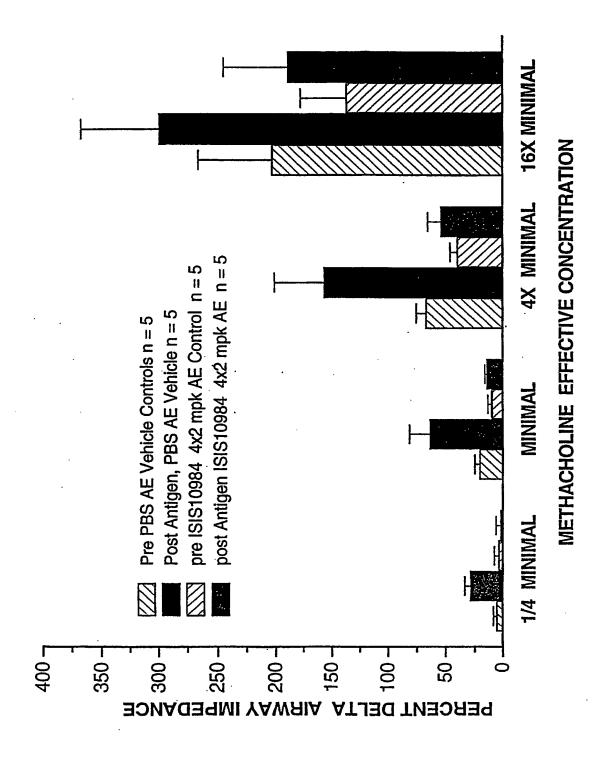


Fig. 20

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